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ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:116590 CAPLUS

DOCUMENT NUMBER: 140:309328

Crosslinking structures of gelatin hydrogels TITLE:

crosslinked with genipin or a water-soluble

carbodiimide

AUTHOR (S): Liang, Huang-Chien; Chang, Wen-Hisung; Liang,

Hsiang-Fa; Lee, Meng-Horng; Sung, Hsing-Wen

Department of Chemical Engineering, National Tsing Hua CORPORATE SOURCE:

University, Hsinchu, 30013, Taiwan

Journal of Applied Polymer Science (2004), 91(6), SOURCE:

4017-4026

CODEN: JAPNAB; ISSN: 0021-8995

PUBLISHER: John Wiley & Sons, Inc.

Journal DOCUMENT TYPE: LANGUAGE: English

REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ΔR It was suggested in our previous studies that carbodiimide- and genipin-crosslinked gelatin hydrogels could be used as bioadhesives to overcome the cytotoxicity problem associated with formaldehyde-crosslinked gelatin hydrogels. In this study, we investigated the crosslinking structures of carbodiimide- and genipin-crosslinked gelatin hydrogels. We found that crosslinking gelatin hydrogels with carbodiimide or genipin could produce distinct crosslinking structures because of the differences in their crosslinking types. Carbodiimide could form intramol. crosslinks within a gelatin mol. or short-range intermol. crosslinks between two adjacent gelatin mols. On the basis of gel permeation chromatog., we found that the polymerization of genipin mols. could occur under the conditions used in crosslinking gelatin hydrogels via a possible aldol condensation. Therefore, besides intramol. and short-range intermol. crosslinks, addnl. long-range intermol. crosslinks could be introduced into genipin-crosslinked gelatin hydrogels. Crosslinking a gelatin hydrogel with carbodiimide was more rapid than crosslinking with genipin. Therefore, the gelation time for the carbodiimide-crosslinked gelatin hydrogels was significantly shorter than that of the genipin-crosslinked gelatin hydrogels. However, the cohesive (interconnected) structure of the carbodiimide-crosslinked gelatin hydrogels was readily broken because, unlike the genipin-crosslinked gelatin hydrogels, there were simply intramol. and short-range intermol. crosslinks present in the carbodiimide-crosslinked hydrogel. In the cytotoxicity study, the carbodiimide-crosslinked gelatin hydrogels were dissolved into small fragments in the cultural medium within 10 In contrast, the genipin-crosslinked gelatin hydrogels remained intact in the medium throughout the entire course of the study. Again, this may be attributed to the differences in their crosslinking structures. The genipin-crosslinked gelatin hydrogels were less cytotoxic than the carbodiimide-crosslinked gelatin hydrogels.

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:507370 CAPLUS

DOCUMENT NUMBER: 129:202126

Growth and viability of mycelial fragments of TITLE:

white-rot fungi on some hydrogels

Lestan, D.; Lestan, M.; Lamar, R. T. AUTHOR (S) -

Forest Products Laboratory, Institute for Microbial CORPORATE SOURCE:

and Biochemical Technology, USDA Forest Service, WI,

53705-2398, USA

Journal of Industrial Microbiology & Biotechnology SOURCE:

(1998), 20(3/4), 244-250

CODEN: JIMBFL; ISSN: 1367-5435

Stockton Press PUBLISHER:

DOCUMENT TYPE: Journal

English LANGUAGE:

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

The viability of mycelial fragments of Trametes versicolor and Irpex lacteus and their growth on selected hydrogels are described. The size of mycelial fragments of the fungi did not significantly influence their viability. Alginate hydrogel films supported fungal growth better than agarose, carrageenan, chitosan and gelatin films, and had the highest mech. strength but were less hydrophilic than the other hydrogels. All com. alginates that were tested supported aseptic growth of fungal fragments without prior sterilization of the hydrogel solution The viability of mycelial fragments in the hydrogel solns. was higher for some com. alginates than that in laboratory grade alginate. The mech. strength and hydrophilicity of hydrogels from alginate type Sobalg FD 155 and Meer HV were comparable to that of laboratory grade alginate. Sterilization and pH of the alginate hydrogel did not significantly influence the growth of T. versicolor mycelial fragments but affected the growth of I. lacteus. Concns. of alginate in the range of 1-2% in the hydrogel did not affect the growth of entrapped mycelial fragments of these fungi.

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN T.7

ACCESSION NUMBER:

1998:163488 CAPLUS

DOCUMENT NUMBER:

128:208937

TITLE:

Fragmented polymeric hydrogels for adhesion prevention

and their preparation

INVENTOR(S):

Wallace, Donald G.; Reich, Cary J.; Shargill, Narinder

S.; Vega, Felix; Osawa, A. Edward

PATENT ASSIGNEE(S):

Fusion Medical Technologies, Inc., USA PCT Int. Appl., 54 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

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			LC.	LK.	LR.	LS.	LT.	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,
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PRIOR											US 1	996-	7048	52	i	A 1	9960	827
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REFEI RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

TT Acrylic polymers, biological studies Albumins, biological studies Biopolymers Caseins, biological studies Collagens, biological studies

Fibrinogens Fibrins

Fibronectins

Gelatins, biological studies

Glycosaminoglycans, biological studies

Hemoglobins Keratins Laminins

Polyesters, biological studies Polymers, biological studies

Polyoxyalkylenes, biological studies Polysaccharides, biological studies

Proteins, general, biological studies RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (fragmented polymeric hydrogels for adhesion

prevention)

ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN L7

ACCESSION NUMBER:

1997:284 CAPLUS

DOCUMENT NUMBER:

126:37149

TITLE:

SOURCE:

Injectable hyaluronic acid-containing dual-phase

compositions, particularly useful in corrective and

plastic surgery

INVENTOR(S): PATENT ASSIGNEE(S): Debacker, Yves; Villain, Franck; Jallet, Valerie W.K. Et Associes, Fr.; Debacker, Yves; Villain,

Franck: Jallet, Valerie PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent French

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	K	IND DA	ATE	APPLICATION NO.	DATE		
							
WO 9633751		A1 19	9961031	WO 1996-FR636	19960425		
W: AU,	BR, CA, J	P, US					
RW: AT	BE, CH, D	E, DK, E	ES, FI, F	R, GB, GR, IE, IT,	LU, MC, NL, PT, SE		
FR 2733426		A1 19	9961031	FR 1995-5181	19950425		
FR 2733426		31 19	970718				
FR 2733427		A1 19	9961031	FR 1996-5224	19960425		
FR 2733427		31 20	010525				
AU 9657667		A1 19	9961118	AU 1996-57667	19960425		
PRIORITY APPLN.	INFO.:			FR 1995-5181	A 19950425		
				WO 1996-FR636	W 19960425		

Dual-phase compns. containing a polymer selected from hyaluronic acid and its AB salts, methods for preparing the compns., and a filler material useful in corrective and plastic surgery are described. The compns. comprise an injectable suspension with a dispersed phase composed of insol.

fragments of a hydrogel of the strongly crosslinked polymer and a continuous phase composed of an aqueous solution of the polymer and/or another biocompatible polymer, selected from proteins, polysaccharides and derivs. which are noncrosslinked or weakly crosslinked. A biphasic composition was prepared from sodium hyaluronate (mol. weight 2 x 106) fibers of bacterial origin and dissolved in 0.25M NaOH solution 1,4-Bis(2,3-epoxypropoxy) butane, a crosslinker, was added to the above solution The mixture was homogenized and heated at 50° for 2 h to give a solid hydrogel. The hydrogel was purified to give solid

fragments with an average particle size of 75-250 µm.

L10 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1983:559449 CAPLUS

DOCUMENT NUMBER:

99:159449

TITLE:

Water-soluble acrylic polymer powder Sumitomo Chemical Co., Ltd., Japan

PATENT ASSIGNEE(S): SOURCE:

Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58061105	A2	19830412	JP 1981-160607	19811007
PRIORITY APPLN. INFO.:			JP 1981-160607	19811007

Water-soluble polymer powder is prepared by polymerizing water-soluble acrylic compds. in H2O, pulverizing the polymer hydrogel, and drying in the presence of thiosalicylic acid (I) [147-93-3], thiomalic acid (II) [70-49-5], or water-soluble salts of I or II. Thus, a 40% solids 9:1 acrylamide-Na acrylate copolymer (III) [25085-02-3] hydrogel (intrinsic viscosity at 30° in 1 N NaNO3 23.3) was cut to 3-7 mm diameter particles, treated with a 20% aqueous Na2SO3 (stabilizer, 5% on III) solution and a 20% aqueous Na thiosalicylate (IV) [134-23-6] (2% on III) solution, and dried 90 min at 100° to give 2-5 mm-diameter III pellets having excellent solubility in H2O and intrinsic viscosity 23.1. When IV was omitted, similarly dried III contained large amts. of water-insol. gel.

L10 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 1987:412818 CAPLUS

DOCUMENT NUMBER: 107:12818

Calcium-induced gelation of alginic acid and TITLE:

pH-sensitive reswelling of dried gels

Yotsuyanagi, Toshihisa; Ohkubo, Tsuneo; Ohhashi, AUTHOR (S):

Takafumi; Ikeda, Ken

Fac. Pharm. Sci., Nagoya City Univ., Nagoya, 467, CORPORATE SOURCE:

Japan

Chemical & Pharmaceutical Bulletin (1987), 35(4), SOURCE:

1555-63

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE:

Journal

LANGUAGE: English

incorporated in the gel.

Ca-induced Na alginate gelation was examined in terms of water content changes. The gelation was accompanied with considerable water loss, which reached about 50-60% (weight/weight) reduction in the fully-cured state. The Ca association with the polymer was strong enough to maintain the shape of fully-cured beads in distilled water and the amt. of the ions associated with the alginate used was 1.6 + 10-3 mol/g of polymer. The diffusion coeffs. of several model compds. having mol. wts. ranging from 122 to 1050 were estimated as a function of the polymer concentration in the fully-cured beads. The swelling property of dried gel particles prepared from fully-cured hydrogels was of interest; the particles remained unchanged in distilled water or acidic medium (pH 1.5 KCl-HCl) but swelled rather rapidly in pH 7.0 phosphate buffer to a size greater than their original size before being dried. pH-sensitive swelling property could be advantageous for orally-administered drug vehicles, especially when an acid-sensitive drug is

L10 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:517238 CAPLUS

DOCUMENT NUMBER: 141:332540

TITLE: Particle-forming precipitation polymerization under

unusual conditions

AUTHOR(S): Takahashi, T.; Fukazawa, H.; Kawaguchi, H.

CORPORATE SOURCE: Faculty of Science and Technology, Keio University,

Yokohama, 223-8522, Japan

SOURCE: Progress in Colloid & Polymer Science (2004), 124,

164-167

CODEN: PCPSD7; ISSN: 0340-255X

PUBLISHER: Springer
DOCUMENT TYPE: Journal
LANGUAGE: English

mix

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Precipitation polymerization of N-isopropylacrylamide (NIPAM) with a small amt. of crosslinker in water gave monodisperse thermosensitive

hydrogel particles at 70 °C but not at 50 °C. Monodisperse hydrogel particles could be obtained even at 50 °C when co-nonsolvent systems such as ethanol/water were used as the polymerization medium. Polymerization in ethanol/water mixture gave poly-NIPAM particles even at room temperature. In this type of polymerization, stirring was unnecessary for the formation of particles. Particles prepared in ethanol/water were highly swellable. This was due to frequent chain transfer reaction in which ethanol takes part, resulting in low-mol.-weight polymers and low crosslinking efficiency. DMSO/water mixture is also suitable for giving similar kinds of particles. However, it is unclear whether the mechanism of particle formation is the same as in ethanol/water

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FILE 'CAPLUS' ENTERED AT 17:33:51 ON 19 MAY 2005

	FILE	'CAPL	JS' ENTERED A	AT 17:35	:26 ON 19	MAY	2005					
L1		25	SEA ABB=ON	PLU=ON	HYDROGEL	(5A)	(FRAGMENT	OR	FRAGMENTED	OR		
			WATER FREE (OR AQUEO	US FREE)							
L2		0	SEA ABB=ON	PLU=ON	HYDROGEL	(5A)	(FRAGMENT	OR	FRAGMENTED)	AND		
			(WATER FREE	OR AQUE	OUS FREE)							
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			FREE)									
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L4		2	SEA ABB=ON	PLU=ON	HYDROGEL	(5A)	(FRAGMENT	OR	FRAGMENTED)	AND		
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L5		23	SEA ABB=ON	PLU=ON	HYDROGEL	(5A)	(FRAGMENT	OR	FRAGMENTED)			
L6		7	SEA ABB=ON	PLU=ON	HYDROGEL	(5A)	(FRAGMENT	OR	FRAGMENTED)	(P)		
			(GELATIN OR	COLLAGE	N OR POLYS	SACCH	ARIDE OR PO	OLYN	MER)			
L7		4	SEA ABB=ON	PLU=ON	HYDROGEL	(5A)	(FRAGMENT	OR	FRAGMENTED)	(P)		
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- FILE 'CAPLUS, MEDLINE, BIOSIS, LIFESCI' ENTERED AT 18:15:09 ON 19 MAY 2005

 L8 2140 SEA ABB=ON PLU=ON HYDROGEL (P) (PARTICLE OR MICROPARTICLE OR FRAGMENT OR FRAGMENTED)
- L9 11 SEA ABB=ON PLU=ON HYDROGEL (P) (PARTICLE OR MICROPARTICLE OR FRAGMENT OR FRAGMENTED) (P) WATER (5A) (AMOUNT OR CONTENET OR PERCENTAGE)
- L10 10 DUP REM L9 (1 DUPLICATE REMOVED)
 D L10 IBIB KWIC 1-